

# R99



## Raising the Bar

Airmar's R99 is a fish's worst enemy. Why? The R99 is so precise; fish are no longer concealed by their surroundings. Fish swimming near the bottom cannot hide. In mid-water depths—fish don't have a fighting chance. Designed with Airmar's exclusive Broadband Ceramic Technology, the 200 kHz element produces high-resolution targets without sacrificing its ability to see deep into the water. The R99 puts the find in fishfinder.

## The Benchmark

A 2 kW powerhouse packed with an array of fifteen 50 kHz elements. And its 200 kHz, Broadband ceramic is a huge 88 mm (3.5"). With such a large active area, the R99's concentrated sound beams have four times the sensitivity of a 1 kW transducer. And the R99's streamlined shape maintains noise-free accurate readings at speeds over 30 knots (34 MPH). With its new exposed high-precision temperature sensor, and the R99 has rewritten the record book.

## 2 kW, High-Definition Digital Broadband

Thru-Hull, External-Mount Transducer

### Fishing Applications

- Blue-water bill fish and pelagic trolling
- Deep-dropping with electric reels past the continental shelf
- Commercial fishing

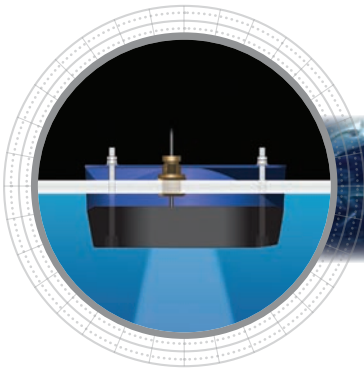
### Features

- The top performer in Airmar's professional line of fishfinder transducers for vessels 12 m (40') and up
- Streamlined shape with fairing provides excellent performance at speeds over 30 knots (34 MPH)
- Depth and new fast-response water-temperature sensor
- Interfaces to all 1 kW and 2 kW echosounders
- Available with a diplexer for single-transmission-line fishfinders and without a diplexer for dual-transmission-line fishfinders
- New urethane housing





*Sensing Technology*

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## Technical Information

### 50 kHz-AFlq / 200 kHz-BFlq

Number of Elements and Configuration		
Beamwidth (@-3 dB)	8° x 17°	5°
RMS Power (W)	2 kW	2 kW
TVR	167 dB	177 dB
RVR	-174 dB	-182 dB
FOM	-8	-6
Q	3	2
Impedance	100 Ω	100 Ω

### MAXIMUM DEPTH RANGE

50 kHz	200 kHz
735 m to 1,176 m (2,500' to 4,000')	235 m to 353 m (800' to 1,200')

### BEAM DIAMETER VS DEPTH

Depth	50 kHz	200 kHz
30 m (100')	4 m x 9 m (14' x 30')	2.7 m (9')
122 m (400')	17 m x 36 m (56' x 120')	11 m (35')
245 m (800')	34 m x 73 m (112' x 240')	21 m (70')
305 m (1,000')	43 m x 91 m (140' x 300')	27 m (88')

### TRANSDUCER COMPARISON

Model	Power	Rating	Performance Increase
B45 B744V B744VL	600 W	Good	Benchmark model for comparison
B258	1 kW	Better	25 times more sensitive at 50 kHz 16 times more sensitive at 200 kHz
B260 SS260	1 kW	Best	50 times more sensitive at 50 kHz 13 times more sensitive at 200 kHz
<b>R99</b>	<b>2 kW</b>	<b>Superb</b>	<b>200 times more sensitive at 50 kHz</b> <b>32 times more sensitive at 200 kHz</b>
R209 R309	3 kW	Ultimate	400 times more sensitive at 50 kHz 32 times more sensitive at 200 kHz

Due to the wide beam of the SS270W, it has been omitted from the table.

### SPECIFICATIONS

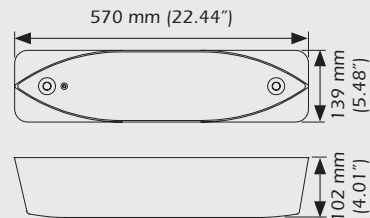
**Weight:** 15.1 kg (33.3 lb)

**Hull Deadrise:** 0° to 25°

**Acoustic Window:** Epoxy/urethane

### DIMENSIONS

#### Transducer



#### Installing the Transducer

